

I. GENERAL

PROJECT DESCRIPTION

This portion of the project involves the modification to the existing traffic control signal at the intersection of US Route 1 and Contee Road in Prince George's County, Maryland. US Route 1 is considered to run in a north/south direction.

The modification will coincide with Phase IV of the maintenance of traffic plans to install a box culvert under the north leg of US Route 1.

Phase IV involves modification of the phasing from exclusive/permissive left turns to exclusive left turns along US Rt. 1. New signalheads and signs shall be installed and existing signalheads, signs and detection zones shall be relocated to coincide with the temporary lane placement.

II. INTERSECTION OPERATION

The intersection shall continue to operate in a NEMA six (6) phase, full traffic actuated mode. However, there will be exclusive left turn movements for both the north and southbound movements of US 1. The US 1 through movements operate concurrently. The Contee Rd. through movements will operate in a side street split phase mode.

The existing cabinet/ controller shall be utilized. The MD-SHA signal shop shall make all necessary adjustments to the controller.

EQUIPMENT LIST

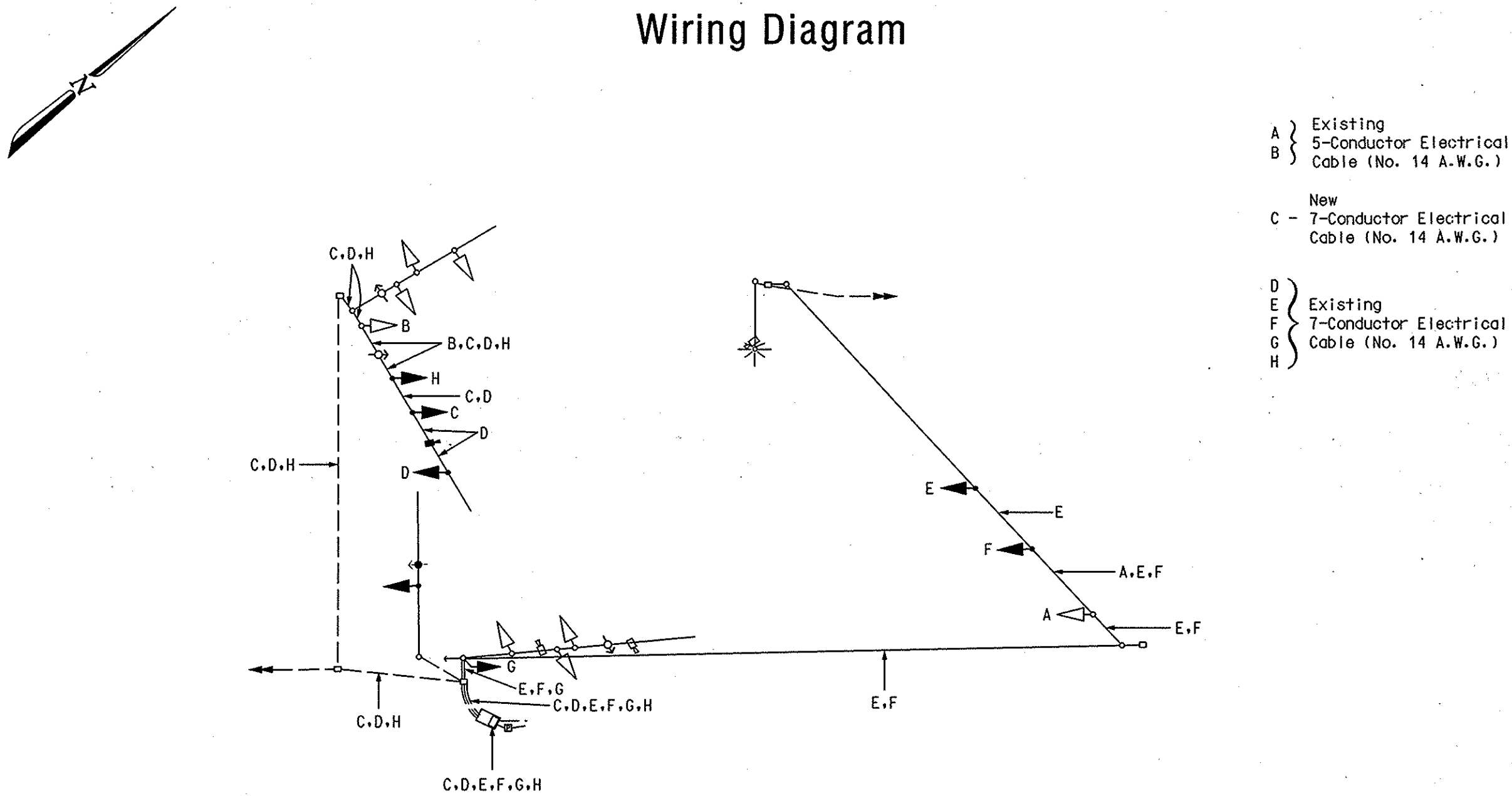
B. Equipment to be furnished and installed by the Contractor. All equipment in this list shall have catalog cuts submitted for approval prior to installation.

Quantity	Units	Specification Section	Description
Lump Sum	LS	108	Mobilization.
Lump Sum	LS	104	Maintenance of traffic.
2	EA	814	12 in., one-way, three section (RA,YA,GA) adjustable black faced traffic signal head with mast arm mounting hardware and tunnel visors.
1	EA	814	12 in., one-way, three section (RA,YA,GA) adjustable black faced traffic signal head with span wire mounting hardware and tunnel visors.
1	EA	814	12 in., one-way, three section (RA,YA,GA) adjustable black faced traffic signal head with pole mounting hardware and tunnel visors.
1	EA	814	12 in., one-way, three section (R,Y,G) adjustable black faced traffic signal head with mast arm mounting hardware and tunnel visors.
1	EA	813	30 in. x 36 in. R 3-5(L) sign with mast arm mounting hardware.
1	EA	813	30 in. x 36 in. R 3-5(L) sign with span wire mounting hardware.
1	EA	813	30 in. x 36 in. R 3-6(L) sign with mast arm mounting hardware.
260	LF	810	7-Conductor electrical cable (No. 14 A.W.G.)
45	LF	549	24 in. wide HAPPTPM - white for stop line.
1	EA	---	Adjust video detector camera.
2	EA	---	Adjust micro-loop probe.
1	EA	---	Relocate existing sign.
Lump Sum	LS	---	Relocate existing signal equipment.
Lump Sum	LS	---	Remove and dispose of existing signal equipment.

Phase Chart

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
Phase 1 & 5	←G→	R	←G→	R	R	←G→	←G→	R	R	R	R	R	R	R	R	↗
1 & 5 Change to Phase 1 & 6 or Phase 2 & 5 or Phase 2 & 6	←G→	G	←G→	G	G	←R→	←R→	R	R	R	R	R	R	R	R	↗
Phase 1 & 6	←G→	G	←G→	G	G	←R→	←R→	R	R	R	R	R	R	R	R	↗
1 Change	←Y→	G	←Y→	G	G	←R→	←R→	R	R	R	R	R	R	R	R	↗
Phase 2 & 5	←R→	R	←R→	R	R	←G→	←G→	G	G	R	R	R	R	R	R	↖
5 Change	←R→	R	←R→	R	R	←Y→	←Y→	G	G	R	R	R	R	R	R	↖
Phase 2 & 6	←R→	G	←R→	G	G	←R→	←R→	G	G	R	R	R	R	R	R	↖
2 & 6 Change	←R→	Y	←R→	Y	Y	←R→	←R→	Y	Y	R	R	R	R	R	R	↖
Phase 3	←R→	R	←R→	R	R	←R→	←R→	R	R	←G→	←G→	G	R	R	R	↓
3 Change	←R→	R	←R→	R	R	←R→	←R→	R	R	Y	Y	Y	R	R	R	↓
Phase 4	←R→	R	←R→	R	R	←R→	←R→	R	R	R	R	R	←G→	←G→	G	↑
4 Change	←R→	R	←R→	R	R	←R→	←R→	R	R	R	R	R	Y	Y	Y	↑
Flashing Operation	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/Y	FL/R	FL/R	FL/R	FL/R	FL/R	FL/R	⚡
Pre-Emp Phase 1	←G→	G	←G→	G	G	R	R	R	R	R	R	R	R	R	R	↗
1 Change	←Y→	G	←Y→	G	G	R	R	R	R	R	R	R	R	R	R	↗
Pre-Emp Phase 2	R	R	R	R	R	←G→	←G→	G	G	R	R	R	R	R	R	↖
2 Change	R	R	R	R	R	←Y→	←Y→	G	G	R	R	R	R	R	R	↖
Pre-Emp Phase 3	R	R	R	R	R	R	R	R	R	←G→	←G→	R	R	R	R	↓
3 Change	R	R	R	R	R	R	R	R	R	Y	Y	R	R	R	R	↓
Pre-Emp Phase 4	R	R	R	R	R	R	R	R	R	R	R	R	←G→	←G→	R	↑
4 Change	R	R	R	R	R	R	R	R	R	R	R	R	Y	Y	R	↑

Wiring Diagram



MOT PHASE IV

Revision "G"



The Traffic Group, Inc.  
410-931-6600  
Fax 410-931-6601



MARYLAND DOT - STATE HIGHWAY ADMINISTRATION  
Office of Traffic & Safety  
TRAFFIC ENGINEERING DESIGN DIVISION  
(General Information Plan)

US Route 1 at Contee Road

DRAWN BY: J. Storck	F.A.P. NO. N/A	TS NO. 1536G-GI-X4	SHEET NO.
CHECKED BY:	S.H.A. NO. XX1005185	T.I.M.S. NO.	6 OF 10
SCALE: N/A	COUNTY: Prince George's	F-750	
DATE: May 20, 2005	LOG MILE: 16000111.49		